

WHAT IS CLAIMED IS:

1. A multifunction product (MFP) for use as at least two among a scanner, a copying machine, a printer, and a facsimile, according to a selection by a user, the MFP comprising:
  - 5      a main machine;
  - a flat bed for mounting a document on an upper part;
  - a flat bed cover with one end being hinge-joined to the main machine, the flat bed cover for opening and closing the flat bed;
  - a scanner for scanning a document set on the flat bed, and converting an optical signal obtained from the scanning into an electrical signal;
  - 10     a printing unit closely installed on a lower part of the scanner;
  - a paper feeder for supplying a paper to the printing unit; and
  - a discharged paper tray installed integrally with the main machine on one side of the main machine, for forming a part of an outline of the multifunction product, the discharged paper tray being formed at a predetermined sloping angle to receive in a paper delivering direction a paper that has been printed at the printing unit.
2. The MFP according to claim 1, wherein the discharged paper tray is projected on one side of the main machine to prevent interference to a conveyance along a delivering path of the scanner, with a backside wall facing a front end of a paper to be printed, and is extended upward higher than the scanner to support a received paper.
3. The MFP according to claim 2, wherein the discharged paper tray is configured such that an inclination angle of the backside wall has a value from at or about 45° to at or about 85° with respect to a horizontal position.
4. The MFP according to claim 1, wherein the discharged paper tray is configured such that an inclination angle of the backside wall has a value from at or about 45° to at or about 85° with respect to a horizontal position.
- 30     5. The MFP according to claim 1, wherein the printing unit comprises:
  - an optical scanner;

- an image bearing body for forming an electrostatic latent image on a surface with a light generated from the optical scanner;
- a developing unit for forming a visual image by supplying a toner to the image bearing body;
- 5        a transferring unit for transferring the visual image to a paper provided from the paper feeder;
- a fuser for applying high temperature and high pressure onto the paper; and
- a paper discharging unit for discharging the paper outside of the main machine.
- 10      6. The MFP according to claim 5, wherein a delivering path between the paper feeder and the fuser is formed in, or substantially formed in, a U shape.
7. The MFP according to claim 1, wherein the discharged paper tray comprises:
- a door installed on a backside wall, for being opened and closed for the
- 15      removal of a jammed paper.
8. The MFP according to claim 7, wherein the door is hinge-joined to the backside wall to be rotated to an open position by its own weight upon an opening operation.
- 20      9. A multifunction product (MFP) having a first position including a paper feeder to hold a paper for printing, a second position in which a printing unit is installed to receive the paper and form a visual image on the received paper, and a third position in which a flat bed is installed as a document mounting means and a scanner including a
- 25      reading-out means is also installed, the MFP comprising:
- a discharged paper tray for forming a part of either the second position or the third position.
10. The MFP according to claim 9, wherein the discharged paper tray is projected to one side of the MFP so as to form a part of an outer cover of the MFP.
- 30      11. The MFP according to claim 9, wherein the discharged paper tray is

configured such that a backside wall of the discharged paper tray contacting a front end of a discharged paper from the printing unit is extended to exceed a height of the third position where the scanner is installed, to prevent an interference with the paper discharged from the printing unit along a delivering path of the scanner.